

TRAFFIC SIGNAL  
GENERAL NOTES

1.

THE COMPLETE SIGNAL INSTALLATION SHALL CONFORM TO ALL APPROPRIATE PARTS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, INCLUDING SUBSEQUENT PUBLISHED RULINGS.
2.

ALL MATERIALS AND WORK SHALL BE IN ACCORDANCE WITH THE GEORGIA DEPARTMENT OF TRANSPORTATION CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS FOR TRAFFIC SIGNAL INSTALLATION (WITH EXCEPTIONS AS DIRECTED BY THESE PLANS OR GWINNETT COUNTY D.O.T.). INSTALLATION SHALL MEET CURRENT NFPA NATIONAL ELECTRICAL CODE AND ANSI NATIONAL ELECTRICAL SAFETY CODE.
3.

MATERIAL CERTIFICATION IS REQUIRED PRIOR TO BEGINNING ANY SIGNAL INSTALLATION WORK. THE CONTRACTOR SHALL FOLLOW PROCEDURES OUTLINED IN THE SPECIAL PROVISIONS.
4.

CONTRACTOR SHALL SUBMIT LOAD CALCULATIONS, SHOP DRAWINGS AND FOUNDATION DIMENSIONS OF POLES AND CATALOG CUTS OF PROPOSED SIGNAL EQUIPMENT AND ELECTRICAL/LINE HARDWARE MATERIALS TO THE PROJECT ENGINEER FOR APPROVAL.
5.

FOR STRAIN POLE FOUNDATION SIZE AND REINFORCEMENT, SEE STRAIN POLE AND MAST ARM POLE FOUNDATION SHEET.
6.

THE CONTRACTOR SHALL LOCATE UNDERGROUND UTILITIES IN THE VICINITY OF NEW TRAFFIC SIGNAL POLES BEFORE INSTALLATION. MINOR SHIFTS (UP TO A MAXIMUM OF 5 FEET) IN LOCATION OF NEW SIGNAL POLES, AT THE DISCRETION OF THE ENGINEER, ARE ACCEPTABLE TO AVOID UNDERGROUND UTILITIES. MINIMUM CLEARANCES FROM EDGE OF PAVEMENT SHALL BE MAINTAINED. PLACEMENT OF THE SIGNAL HEADS MUST BE RETAINED AS SHOWN ON THE PLANS.
7.

SIGNAL HEADS SHALL BE ERECTED TO PROVIDE AT LEAST 17 FEET BUT NO MORE THAN 19 FEET CLEARANCE FROM BOTTOM OF SIGNAL HEADS TO TOP OF ROAD SURFACE AND A MINIMUM OF 8 FEET MEASURED HORIZONTALLY BETWEEN CENTERS OF SIGNAL FACES.
8.

THE CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC SIGNALS DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC SIGNAL AND/OR CONTROL SYSTEM ADJUSTMENTS, INCLUDING TEMPORARY SUPPORT POLE LOCATION(S) REQUIRED BY THE PROJECT DURING THE INTERIM PERIOD THROUGH INSTALLATION OF NEW SIGNAL EQUIPMENT. AT NO TIME SHALL THE CONTRACTOR CAUSE ANY PART OF THE SIGNAL OPERATION TO BE INOPERABLE.
9.

WHEN APPLICABLE TO THE PLANS, THE CONTRACTOR MUST INSTALL AND TEST ALL NEW SIGNAL ITEMS PRIOR TO REMOVING EXISTING SIGNALS FROM SERVICE.
10.

WHEN APPLICABLE TO THE PLANS, CONTRACTOR WILL BE REQUIRED TO PROVIDE A NEW RISER, CONDUIT, CONDUCTORS AND DISCONNECT TO PROVIDE POWER SERVICE INTO THE CONTROLLER CABINET.
11.

THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NEW GUYS ON EXISTING POLES WHEN ATTACHING SPAN WIRE OR FIBEROPTIC INTERCONNECT CABLE TO THE POLES, WHEN REQUIRED, AS DIRECTED BY THE ENGINEER.
12.

TRAFFIC SIGNAL CONTRACTOR SHALL PROVIDE POWER FEED TO CONTROLLER CABINET, INCLUDING A POWER DISCONNECT BOX, EITHER ON THE TOP OF THE SIGNAL POLE IF POWER IS FED ABOVE GROUND TO THE CONTROLLER CABINET, OR THE POWER DISCONNECT BOX SHALL BE ON THE UTILITY POLE FROM WHICH POWER IS DRAWN IF THE FEED IS RUN UNDERGROUND
13.

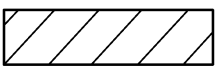

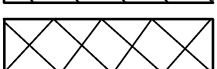
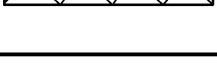
CONTRACTOR SHALL COORDINATE RELOCATION OF OVERHEAD UTILITIES THAT ARE IN CONFLICT WITH PROPOSED SPAN WIRE AND POLES. CONTRACTOR SHALL CONTACT OWNER AND ENGINEER WITH ADEQUATE LEAD TIME IF THE OVERHEAD UTILITIES CANNOT BE RELOCATED AND THE STRAIN POLES AND SPAN WIRE MUST BE REDESIGNED TO ELIMINATE THE CONFLICT.

LIST OF MATERIALS (FOR INFORMATION ONLY)

MATERIALS	UNIT	QUANTITY
CONTROL CABINET ASSEMBLIES		
A. CONTROLLER UNIT, MODEL 2070L	EACH	1
B. CABINET ASSEMBLY, MODEL 332	EACH	1
C. SWITCH PACK	EACH	6
D. DC ISOLATOR	EACH	3
E. LOOP DETECTOR, 2 CHANNEL	EACH	2
F. BATTERY BACKUP SYSTEM, UNINTERRUPTABLE POWER SUPPLY	EACH	1
G. CONFLICT MONITOR 2010 TYPE E, W/ EXTENDED FEATURES	EACH	1
PED LEAD-IN WIRE (SHIELDED, TWISTED/1000 FT)		
A. 3 PAIR, 18 AWG	REEL	2
SIGNAL CABLE (14 AWG)		
B. 7 CONDUCTOR PER 1000 FT.	REEL	2
LOOP DETECTION WIRE (14 AWG, STRANDED/1000 FT)	REEL	1
ONE WAY, 3 SECTION, 12" EXPANDED VIEW LED SIGNAL HEAD, PLASTIC		
ONE WAY, 5 SECTION, 12" EXPANDED VIEW LED SIGNAL HEAD, (CLUSTER) PLASTIC	EACH	6
18" PEDESTRIAN LED SIGNAL HEAD, SIDE BY SIDE	EACH	2
PEDESTRIAN PUSH BUTTON STATION W/SIGN (POLARA PBF 9X12-B/BDLB-8/800-69, OR EQUIV.)	EACH	8
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD	EACH	6
BACK PLATE FOR ONE-WAY, 3-SECTION, 12" SIGNAL HEAD	EACH	2
HARDWARE FOR MAST ARM ERECTION	EACH	8
HARDWARE FOR BRACKET ERECTION FOR 18" PEDESTRIAN SIGNAL HEADS, ONE-WAY MOUNTING (CLAMSHELL)		
DOUBLE PUSHBUTTON STATION ADAPTER	EACH	8
PULL BOX, TYPE 2, POLYMER CONCRETE	EACH	4
PULL BOX, TYPE 3, POLYMER CONCRETE	EACH	8
PEDESTAL POLE 10'	EACH	5
LOOP SAW CUT	LIN FT	1
CONDUIT, 2", TYPE 3 (HDPE), METAL, RIGID	LIN FT	80
CONDUIT, 1", NON-METAL, TYPE 2 (PVC)	LIN FT	650
CONDUIT, 2", NON-METAL, TYPE 2 (PVC)	LIN FT	40
LEFT TURN YIELD ON GREEN SIGN (R10-12)	LIN FT	540
MISC MATL TO COMPLETE INSTALLATION	EACH	2
	LUMP	LUMP

332 CABINET INPUT ASSIGNMENT

		SLOT	1	2	3	4	5	6	7	8	9	10	11	12	13	14
UPPER INPUT FILE																
		TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	I-VDS	DC	DC	DC
		CARD		2-CHANNEL									I-VDS	DC ISO	DC ISO	DC ISO
CHANNEL 1	CI PIN	56	39	63	47	58	41	65	49	60			80	67	68	81
	FUNCTION		L2										Ø 1	Ø 2 PED	Ø 6 PED	FLASH
	FIELD TERM	TB2 1,2	TB2 5,6	TB2 9,10	TB4 1,2	TB4 5,6	TB4 9,10	TB6 1,2	TB6 5,6	TB6 9,10				TB8 4,6	TB8 7,9	N/C
CHANNEL 2	CI PIN	56	43	76	47	58	45	78	49	62			53	69	70	82
	FUNCTION												Ø 4	Ø 4 PED	Ø 8 PED	STOP TIME
	FIELD TERM	TB2 3,4	TB2 7,8	TB2 11,12	TB4 3,4	TB4 7,8	TB4 11,12	TB6 3,4	TB6 7,8	TB6 11,12				TB8 5,6	TB8 8,9	N/C
LOWER INPUT FILE																
		TYPE	DET	DET	DET	DET	DET	DET	DET	DET	DET	TBA	I-VDS	DC	DC	DC
		CARD		2-CHANNEL									I-VDS			
CHANNEL 1	CI PIN	55	40	64	48	57	42	66	50	59			54	71	72	51
	FUNCTION		L6										Ø 5			
	FIELD TERM	TB3 1,2	TB3 5,6	TB3 9,10	TB5 1,2	TB5 5,6	TB5 9,10	TB7 1,2	TB7 5,6	TB7 9,10				TB9 4,6	TB9 7,9	TB9 10,12
CHANNEL 2	CI PIN	55	44	77	48	57	46	79	50	61			75	73	74	52
	FUNCTION												Ø 8			
	FIELD TERM	TB3 3,4	TB3 7,8	TB3 11,12	TB5 3,4	TB5 7,8	TB5 11,12	TB7 3,4	TB7 7,8	TB7 11,12				TB9 5,6	TB9 8,9	TB9 11,12

PROPERTY AND EXISTING R/W LINE -----  
REQUIRED R/W LINE -----  
CONSTRUCTION LIMITS ---C---F---  
EASEMENT FOR CONSTR   
& MAINTENANCE OF SLOPES   
EASEMENT FOR CONSTR OF SLOPES   
EASEMENT FOR CONSTR OF DRIVES 



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REVISION DATES

STATE OF GEORGIA  
DEPARTMENT OF TRANSPORTATION  
OFFICE: PROGRAM DELIVERY  
GENERAL NOTES  
SRI5A/SR82 OVER CURRY CREEK

DRAWING No.

27-01